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AND

JOURNAL

OF THE

MINERALOGICAL SOCIETY

(Instituted February 3, 1876)

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MINERALOGICAL SOCIETY

(*Instituted February* 3, 1876)

BYE-LAWS[1]

1. The object of the Mineralogical Society of Great Britain and Ireland, with which the Crystallological Society was amalgamated on December 11, 1883, shall be to advance the knowledge of Mineralogy and also of Crystallography and Petrology.

2. The Society shall consist of Ordinary Members and Honorary Members.

Ordinary Members.

3. Every candidate for Ordinary Membership shall be proposed by two Ordinary Members, one, at least, of whom shall have personal knowledge of the candidate.

4. Elections to Ordinary Membership shall be made by the Council, and shall be confirmed at the ensuing General Meeting by a majority consisting of three-fourths of the Members present and voting.

5. Ordinary Members shall pay an entrance fee of one guinea and an annual subscription of one guinea. They shall be entitled to compound for the annual subscription by a single payment of fifteen guineas, but Members who have paid their annual subscriptions for twenty years shall be entitled to compound for ten guineas.

6. Annual subscriptions shall be due on the first of January of each year, but Members elected after the first of October shall not be required to pay a subscription for the then current year.

7. No person elected an Ordinary Member of the Society shall be entitled to any of the privileges of Membership until he shall have paid his entrance fee and first annual subscription; and unless these be received within four calendar months of the date of his election, or within such further time as the Council may determine, the election of such person shall be void.

8. At the first Meeting of the Council in each calendar year the name of any Ordinary Member who is in default with his annual subscription for the preceding year shall be brought before the

[1] Revised at the Anniversary Meeting of November 3, 1931.

Council, and an intimation that this action has been taken shall be communicated to the Member in writing at his last known address. If at the first meeting in the next ensuing year the Member be still in default and the default be for the two preceding years the Council shall be empowered to erase his name from the list of Members.

Honorary Members.

9. Ten persons, non-resident in Great Britain or Ireland, may be elected Honorary Members. They shall pay neither entrance fee nor annual subscription. They shall not be entitled to vote on any question relating to the management or business of the Society, nor to serve on the Council of the Society, nor to fill any Office in the Society, but subject to these restrictions shall be entitled to every other privilege accorded to Ordinary Members.

10. Every candidate for Honorary Membership shall be proposed by two Members of the Council, and the election shall be by the Council, and shall be confirmed at the ensuing General Meeting by a majority consisting of three-fourths of the Members present and voting.

Council.

11. The Society shall be governed by a Council, consisting of a President, two Vice-Presidents, a General Secretary, a Foreign Secretary, a Treasurer, an Editor of the Journal, the Trustees of the Society, and twelve Ordinary Members.

12. All Members of the Society who have served the office of President shall be Life-Members of the Council.

13. The Council shall be elected annually at the Anniversary Meeting.

14. Four Ordinary Members of Council shall retire annually, and shall not be eligible for re-election until the next Anniversary Meeting.

15. The Council shall prepare a list of Members nominated for election as Officers and Ordinary Members of Council.

16. The election of Council shall be effected by the agency of voting papers containing the list nominated by the Council. They shall be sent by the General Secretary, at least four weeks before the Anniversary Meeting, to every Ordinary Member of the Society, and every

such Member shall be entitled to substitute the names of any other Ordinary Members of the Society for those on the list.

17. The voting papers shall be returned by the Members to the General Secretary, and shall be examined at the Anniversary Meeting by two Scrutineers appointed by the Chairman, who shall on their report declare the result of the election. The voting papers need not be signed.

18. The Council shall have power to appoint Officers, and to co-opt Ordinary Members of Council, to fill vacancies in the Council caused by death or resignation during the interval between two Anniversary Meetings.

19. Meetings of the Council shall be summoned by the General Secretary at the order of the President or of not fewer than three Members of the Council; at such meetings six shall be a quorum, of whom one shall be either the President, a Vice-President, the Treasurer, or the General Secretary.

20. A Report of Council on the work and progress of the Society shall be submitted to each Anniversary Meeting.

Property and Trustees.

21. Two or more Trustees shall be appointed by the Council from amongst the Members of the Society, and the invested property of the Society shall stand in their names.

22. The Council may from time to time make such purchases of books or other movable effects as they may consider to be required for the furtherance of the objects of the Society and the conduct of its business. They may also dispose of such effects by sale, if not required, provided that no instruction to sell at any one time effects the total value of which exceeds the sum of fifty pounds shall be valid unless endorsed by a resolution passed at a General Meeting of the Society.

23. The Council may authorize the investment of money and the sale of investments. A copy of a resolution of the Council authorizing the sale or purchase of investments, certified by the Chairman of the meeting at which it was passed, shall be sufficient authority to the Trustees to give effect to such resolution.

24. Composition fees shall be treated as Capital, and all moneys so received and all other moneys the investment of which has been authorized by the Council shall be invested in such stock or security

as the Council may select from amongst the stocks and securities authorized by Law for the investment of trust moneys.

25. No Member of the Society is or shall be entitled to any distinct or separate share in the estate, revenue, or effects of the Society, and the Society shall not and may not make any dividend, gift, division, or bonus in money unto or between any of its Members, provided that nothing herein shall prevent the payment in good faith of reasonable and proper remuneration, or of an honorarium in lieu thereof, to any Member of the Society, in return for services rendered to the Society, nor prevent the distribution of copies of the publications of the Society gratis among the Members of the Society.

26. In the event of a dissolution of the Society its property and effects (whether funded or otherwise) shall be disposed of by gift to such other Societies or Institutions or in such other manner as may be decided by the vote of a majority of at least three-fourths of those present and voting at a General Meeting of the Society summoned with notice of the proposed disposal, provided that no individual Members shall benefit thereby, and that such gift or other disposal shall be for the benefit of Mineralogy or its allied Sciences.

Meetings.

27. General Meetings of the Society shall be summoned from time to time as may be deemed necessary by the Council, or on the requisition of any ten Members of the Society. One of these meetings in each year shall be termed the Anniversary Meeting. Any meeting of the Society summoned for the purpose of considering special matters relating to the business of the Society shall be termed a Special General Meeting, and the summons thereto shall contain the resolutions or other matter to be considered, and shall be issued to the Members not less than four weeks before the date fixed for the Meeting.

Journal.

28. The Numbers of the *Mineralogical Magazine and Journal of the Society* shall be issued at such intervals as the Council shall determine, and shall be sent, postage paid, to every Member of the Society, other than annual subscribers who are in default with their annual subscriptions for the preceding calendar year.

Auditors and Balance Sheet.

29. One Member of the Council and one Ordinary Member of the Society, who is not a Member of the Council, shall be appointed annually by the Council to audit the accounts of the Society.

30. No auditor shall serve for more than three years in succession.

31. The audited Balance Sheet, after submission to the Council, shall be published in the Journal of the Society as early as possible in every year.

Expulsion of Members.

32. A majority consisting of three-fourths of the whole Council shall have power to expel a Member from the Society, but a Member who has been expelled shall have a right of appeal to the Society. Notice of such appeal to the Society shall be sent by such Member to the General Secretary within four weeks of the expulsion, and the appeal shall be considered by the Society at the next Anniversary Meeting or at a Special General Meeting; a majority of the votes recorded at such Meeting sufficing to confirm or annul the decision of the Council.

Alteration of the Bye-laws.

33. The Bye-laws may be altered only at an Anniversary Meeting or at a Special General Meeting duly summoned for the purpose of considering the proposed alterations, and only by a majority consisting of three-fourths of the Members present and voting. Notice of changes proposed to be made in the Bye-laws shall be communicated by the General Secretary to every Ordinary Member of the Society at least four weeks before the Anniversary Meeting or the Special General Meeting summoned for the purpose of their consideration.

Obligation Book.

34. Ordinary Members, by payment of their entrance fee, signify their acceptance of any Bye-laws approved by the Society; and every Member of the Society shall sign an Obligation Book.

Interpretation.

35. In the interpretation of the Bye-laws words in the masculine gender only shall include the feminine gender also.

LIST OF MEMBERS

(*February*, 1932)

HONORARY MEMBERS

Year of Election.

1926 Brauns, Reinhard, Professor of Mineralogy and Petrography in the University of Bonn, *Endenicher-Allee, Bonn, Germany.*

1895 Brögger, Waldemar Christofer. *The University, Oslo, Norway.*

1909 Cesàro, Giuseppe. Emeritus Professor of Mineralogy in the University of *Liége, Belgium.*

1897 Dana, Edward Salisbury. Yale University, *New Haven, Connecticut, U.S.A.*

1926 Duparc, Louis. Professor of Mineralogy, Petrography, and Analytical Chemistry, *École de Chimie, Université de Genève, Switzerland.*

1912 Goldschmidt, Victor. Professor of Mineralogy in the University of Heidelberg. 9 *Gaisbergstrasse, Heidelberg, Germany.*

1900 Lacroix, Antoine François Alfred. Professor of Mineralogy in the Muséum National d'Histoire Naturelle. 61 *Rue de Buffon, Paris, V, France.*

1926 Rinne, Friedrich. Honorary Professor in the University of Freiburg, Baden. *Rehhagweg* 21, *Günterstal, Freiburg im Breisgau, Germany.*

1913 Wallerant, Frédéric. Professor of Mineralogy in the University, *Laboratoires à la Sorbonne, Paris, France.*

ORDINARY MEMBERS[1]

A Annual Subscribers.
L Life-Members.
C Belonged to the Crystallological Society at the time of the amalgamation of the two Societies, December 11, 1883.

Year of Election.

A 1931 Adams, Leason Heberling, B.S. *Geophysical Laboratory*, 2801 *Upton Street, Washington, D.C., U.S.A.*

A 1931 Aminoff, Gregori, Professor, *Mineralogiska Avdelning, Naturhistoriska Riksmuseet, Stockholm* 50, *Sweden.*

A 1928 Anderson, Basil William, B.Sc., F.C.S. '*Thatched Cottage*', *Farleigh Common, Whyteleafe, Surrey.*

L 1926 Andrew, Gerald, M.Sc., F.G.S. *Dept. of Geology, Egyptian University of Cairo, Egypt;* and 8 *Calland Avenue, Hyde, Cheshire.*

A 1922 Arkell, Daniel John, B.Sc. *St. Edward's College, Cottonera, Malta.*

L 1900 Ashcroft, Frederick Noel, M.A., F.C.S., F.G.S., F.R.G.S. 1 *Egerton Gardens, South Kensington, London, S.W.* 3.

A 1922 Balsillie, David, B.Sc., F.G.S., F.R.S.E. *Dept. of Geology, Royal Scottish Museum, Edinburgh.*

A 1927 Bannister, Frederick Allan, M.A. *Mineral Dept., British Museum of Natural History, South Kensington, London, S.W.* 7; and 29 *Waddon Court Road, Croydon, Surrey.*

L 1894 Barlow, William, F.R.S. '*Elm House*', *Stanmore, Middlesex.*

A 1913 Barreto, Dr. Antonio de Barros. Professor of Mineralogy and Geology in the Polytechnic School of São Paulo. *Rua Maranhão* 60, *Hygienopolis, São Paulo, Brazil.*

L 1893 Barrow, George, F.G.S. Formerly of the Geological Survey of Great Britain. 202 *Brecknock Road, Upper Holloway, London, N.* 19.

A 1928 Beard, Edward Harold, B.Sc. *Mineral Resources Dept., Imperial Institute, South Kensington, London, S.W.* 7; and 1 *Dolcoath Road, Camborne, Cornwall.*

L 1922 Belaiew, Nicholas Timothy, Colonel, C.B., F.C.S., M.I.M.E. 1 *Rond-Point Bugeaud, Paris, XVI, France.*

[1] Corrections for this List should be sent to the General Secretary.

	Year of Election.	
L	1912	Bell, Robert. *'Drumcreen', Bellevue Park, Whitewell Road, Belfast.*
L	1888	Bemrose, Henry Howe, J.P., M.A., Sc.D., F.G.S. *'Ash Tree House', Osmaston Road, Derby.*
A	1929	Bernal, John Desmond, M.A. *Dept. of Mineralogy and Petrology, The University, Cambridge.*
A	1906	Blake, George Stanfield, B.Sc., A.R.S.M., F.G.S. Geological Survey of Palestine. *P.O. Box* 585, *Jerusalem, Palestine.*
A	1929	Blight, Percy. *c/o Vieille Montagne Zinc Company, Nenthead, Alston, Cumberland.*
A	1923	Blumenthal, Maurice. 558 *Quincy Street, Brooklyn, New York, U.S.A.*
A	1922	Boswell, Percy George Hamnall, O.B.E., D.Sc., A.R.C.S., F.R.S. Professor of Geology, *Imperial College of Science and Technology, South Kensington, London, S.W.* 7.
A	1931	Bottley, Edward Percival. 30 *Church Street, Chelsea, London, S.W.* 3.
A	1927	Boubée, Nérée, Licencié-ès-Sciences. 3 *Place St. André-des-Arts, Paris, VI, France.*
L	1927	Bowen, Norman Levi, M.A., B.Sc., Ph.D. *Geophysical Laboratory,* 2801 *Upton Street, Washington, D.C., U.S.A.*
L	1897	Bowman, Herbert Lister, M.A., D.Sc., F.G.S., F.C.S. Professor of Mineralogy in the University of Oxford. *Dept. of Mineralogy, University Museum, Oxford.*
A	1923	Brady, Oscar Lisle, B.A., D.Sc., D.I.C., F.I.C., F.C.S. Reader in Organic Chemistry, University of London, University College. 5 *Woodside Avenue, Beaconsfield, Buckinghamshire.*
A	1923	Bragg, Sir Willian Henry, O.M., K.B.E., M.A., D.Sc., F.R.S. Director of the Royal Institution. 21 *Albemarle Street, London, W.* 1.
A	1920	Bragg, William Lawrence, O.B.E., M.A., F.R.S. Professor of Physics, *The University, Manchester.*
A	1919	Brammall, Alfred, Ph.D., D.Sc., D.I.C., F.G.S., A.I.M.M. *Dept. of Geology, Imperial College of Science and Technology, South Kensington, London, S.W.* 7.

	Year of Election.	
A	1922	Broadhead, James. 15 *Langholm Crescent, Darlington, Co. Durham.*
A	1923	Buckley, Harold Eugene, M.Sc. Lecturer in Crystallography, University of Manchester. '*Bradda*', *Hazelhurst Road, Worsley, Lancashire.*
A	1921	Bull, Alfred Joseph, M.Sc., F.Inst.P., F.G.S. *L.C.C. School of Photo-engraving*, 6 *Bolt Court, Fleet Street, London, E.C.* 4.
A	1926	Burri, Conrad Robert, Ph.D. *Mineralogical Institute, Sonneggstrasse* 5, *Zürich* 6, *Switzerland.*
L	1885	Butler, Francis Henry, M.A., A.R.S.M., L.S.A. (Lond.). 11 *Alfred Road, Sutton, Surrey.*
A	1919	Buttgenbach, Henri Jean François. Professor of Crystallography and Mineralogy in the University of Liége. 439 *Avenue Louise, Bruxelles, Belgium.*
A	1923	Cahn, Lazard. 6 *North Eighth Street, Colorado Springs, Colorado, U.S.A.*
A	1924	Campbell, Robert, M.A., D.Sc., F.G.S., F.R.S.E. Lecturer in Petrology, University of Edinburgh. '*Maryton*', *Woodhall Road, Colinton, Edinburgh.*
A	1928	Clarke, Edward de Courcy, M.A., A.I.M.M. *Dept. of Geology, University of Western Australia, Perth, Western Australia.*
L	1927	Clegg, Edward Leslie Gilbert, B.Sc. Assistant Superintendent, *Geological Survey of India*, 27 *Chowringhee Road, Calcutta, India.*
A	1931	Cockburn, Alexander Murray, B.Sc., Ph.D. *Grant Institute of Geology, King's Buildings, Mains Road, Edinburgh.*
L	1927	Coke, Basil Elmsley, Lieut.-Colonel R.E. (retired), O.B.E., M.A., F.G.S. '*Littlehill*', *Harpsden, Henley-on-Thames, Oxfordshire.*
A	1913	Collingridge, Harvey, B.Sc., F.G.S., A.M.I.C.E. *Premier House*, 150 *Southampton Row, London, W.C.* 1.
L	1923	Combe, Arthur Delmar, F.G.S. *Geological Survey, Entebbe, Uganda, East Africa.*
L	1900	Coomaraswamy, Ananda K., D.Sc., F.L.S., F.G.S., M.R.A.S. Keeper of Indian Art, *Museum of Fine Arts, Boston, Massachusetts, U.S.A.*

	Year of Election.	
A	1924	Coussmaker, Arthur Blakeney, M.C., F.G.S., A.I.M.M. 78 *Hatton Garden, London, E.C.* 1.
A	1907	Crook, Thomas, A.R.C.Sc.I., F.G.S. *Mineral Resources Dept., Imperial Institute, South Kensington, London, S.W.* 7.
L	1899	Cullis, Charles Gilbert, D.Sc., F.G.S., M.I.M.M. Professor of Economic Mineralogy, *Imperial College of Science and Technology, South Kensington, London, S.W.* 7.
A	1926	Davies, George MacDonald, M.Sc., F.G.S. Reader in Geology, Birkbeck College, London. 104 *Avondale Road, South Croydon, Surrey.*
L	1885	Daw, John Williams. *Axim, Gold Coast Colony, West Africa;* and *Woodhaven', Walton-on-Thames, Surrey.*
L	1898	De Castro, John Paul, M.A., F.C.S., F.I.C. 8 *Bigwood Road, Golders Green, London, N.W.* 11.
A	1925	Dewey, Henry, F.G.S. Geological Survey of Great Britain, 28 *Jermyn Street, London, S.W.* 1.
A	1925	Double, Ivan Sidney, M.Sc., F.G.S. *Geological Dept., The University, Liverpool.*
L	1928	Douglas, George Vibert, M.C., M.Sc., F.G.S. *'Clereholt', Holmbury St. Mary, Dorking, Surrey.*
L	1910	Drugman, Julien Léon Eugène, Ph.D., M.Sc. 33 *Rue Edmond Picard, Uccle, Brabant, Belgium.*
L	1926	Eckermann, Harry von, Ph.D. Lecturer in Mineralogy, University of Stockholm. *Edeby pr. Sparreholm, Sweden.*
L	1918	Edge, Arthur Broughton, M.B.E., A.R.S.M., A.R.C.S., B.Sc., F.C.S., F.G.S. *c/o Royal School of Mines, South Kensington, London, S.W.* 7.
A	1927	Elles, Miss Gertrude Lilian, M.B.E., D.Sc., F.G.S. *Newnham College, Cambridge.*
A	1925	Ellsworth, Hardy Vincent, M.A., Ph.D. *Geological Survey of Canada, Ottawa, Canada.*
A	1920	English, George Letchworth. 50 *Brighton Street, Rochester, New York, U.S.A.*

Year of Election.

A 1929 Eyles, Victor Ambrose, B.Sc. Geological Survey of Great Britain. *'Clarendon House', Clayton Street West, Newcastle-on-Tyne.*

A 1924 Fabry, Richard John Charles, A.R.C.S., B.Sc. *Geological Survey of Canada, Ottawa, Canada.*

L 1926 Fearnsides, William George, M.A., F.G.S. Professor of Geology, University of Sheffield. 11 *Ranmoor Crescent, Sheffield.*

A 1915 Fermor, Lewis Leigh, O.B.E., A.R.S.M., D.Sc., F.G.S. *Geological Survey of India*, 27 *Chowringhee Road, Calcutta, India.*

L 1895 Fletcher, Rev. Mark, M.A., M.Sc., F.G.S. Lecturer in Mineralogy in the Armstrong College, Newcastle-on-Tyne. *Long Benton Vicarage, Forest Hall, Northumberland.*

L 1902 Flett, Sir John Smith, K.B.E., M.A., LL.D., D.Sc., F.R.S. Director of the Geological Survey of Great Britain. 28 *Jermyn Street, London, S.W.* 1.

A 1926 Ford, Hugh Alexander, H.B.M. Consul, *The British Consulate General, Lorenço Marques, Portuguese East Africa.*

A 1923 Garnett, Cecil Stevenson, F.C.S., F.G.S. 6 *The Strand, Derby.*

L 1886 Goldschmidt, Victor, Ph.D. Professor of Mineralogy in the University of Heidelberg. 9 *Gaisbergstrasse, Heidelberg, Germany.*

A 1905 Goodchild, Wilbert, M.B., Ch.B. *Blencathra Sanatorium, Threlkeld, Penrith, Cumberland.*

A 1922 Gordon, Hugh Septimus, M.I.M.M., F.G.S. 10 *Nevill's Court, Fetter Lane, London, E.C.* 4; and *Tati Company, Limited, Francistown, Bechuanaland Protectorate, South Africa.*

A 1923 Gordon, Samuel George. *Academy of Natural Sciences, Logan Square, Philadelphia, Pennsylvania, U.S.A.*

A 1923 Gordon, William Thomas, M.A., D.Sc., F.R.S.E., F.G.S. Professor of Geology, *King's College, Strand, London, W.C.* 2.

Year of Election.

A 1903 Grabham, George Walter, M.A., F.G.S. Geologist to the Sudan Government. *P.O. Box* 178, *Khartum, Sudan.*

A 1913 Graham, Richard Percival Devereux, B.A. Assistant Professor of Mineralogy, *McGill University, Montreal, Canada.*

A 1924 Grantham, Donald Robert, A.R.S.M., A.R.C.S., D.Sc. *Geological Survey Dept., Dodoma, Tanganyika Territory, East Africa*; and '*Denecliffe*', *Dorking, Surrey.*

A 1929 Gray, George Wynter, A.R.S.M. 3 *Lombard Street, London, E.C.* 3.

A 1923 Greenwood, Gilbert, M.Sc. *Judson College, Rangoon, Burma.*

A 1921 Gregory, Albert George Frederick. '*Melrose*', *Woodchurch, Ashford, Kent.*

L 1892 Gregory, John Walter, D.Sc., LL.D., F.R.S. Emeritus Professor of Geology, University of Glasgow. '*Bassett*', *Little Baddow, Chelmsford, Essex.*

A 1931 Groves, Arthur William, Ph.D., M.Sc., D.I.C., F.G.S. 37 *Fontenoy Road, Bedford Hill, London, S.W.* 12.

A 1930 Hall, Thomas Clifford Fitzwilliam, M.I.M.M. *Royal Societies Club,* 63 *St. James's Street, London, S.W.* 1; and '*Trevu*', *Camborne, Cornwall.*

A 1912 Hallimond, Arthur Francis, M.A., F.G.S. Assistant Curator, *Museum of Practical Geology,* 28 *Jermyn Street, London, S.W.* 1.

A 1885 Harker, Alfred, M.A., LL.D., F.R.S. Emeritus University Reader in Petrology, *St. John's College, Cambridge.*

A 1931 Hart, Robert, B.Sc., Ph.D. *Macaulay Institute for Soil Research, Craigiebuckler, Aberdeen.*

L 1900 Hartley, Sir Harold Brewer, Kt., C.B.E., M.C., M.A., F.R.S. *Balliol College, Oxford.*

A 1917 Harwood, Henry Francis, M.Sc., Ph.D., A.I.C., F.G.S. Lecturer in Chemistry, *Imperial College of Science and Technology, South Kensington, London, S.W.* 7.

A 1910 Hatch, Frederick Henry, O.B.E., Ph.D., M.I.M.M., F.G.S. *D* 3, *The Albany, Piccadilly, London, W.* 1.

	Year of Election.	
A	1921	Hawkes, Leonard, D.Sc., F.G.S. Reader in Geology, University of London. *Bedford College, Regent's Park, London, N.W.* 1.
A	1928	Heide, Fritz, D.Ph. *Schillerstrasse* 12, *Jena, Germany.*
A	1929	Hey, Max Hutchinson, B.A., B.Sc. *Mineral Dept., British Museum of Natural History, South Kensington, London, S.W.* 7.
L	1907	Hilton, Harold, M.A., D.Sc. Professor of Mathematics in the University of London. *Bedford College, Regent's Park, London, N.W.* 1.
A	1927	Hitchen, Charles Stansfield, B.Sc., Ph.D., A.R.C.S., D.I.C., F.G.S. *c/o The Commonwealth Fund,* 41 *East* 57*th Street, New York City, U.S.A.*
A	1928	Hodge, Matthew Burnop, M.Sc., Ph.D. *Dept. of Geology, The University, Manchester.*
L	1896	Holland, Sir Thomas Henry, K.C.S.I., K.C.I.E., A.R.C.S., D.Sc., F.R.S. Principal of *The University, Edinburgh.*
A	1929	Hollingworth, Sidney Ewart, M.A., D.Sc., F.G.S. *'Whitecot', Addington Road, West Wickham, Kent.*
A	1914	Holmes, Arthur, D.Sc., D.I.C., A.R.C.S., F.G.S. Professor of Geology in the University of Durham. *Science Laboratories, South Road, Durham.*
A	1931	Honess, Arthur Pharaoh. Professor of Mineralogy, *Pennsylvania State College, State College, Pennsylvania, U.S.A.*
A	1908	Hopkins, Edward. 32–34 *Holborn Viaduct, London, E.C.* 1.
A	1925	Horn, Aubrey Evelyn, *Loup House, Axminster, Devon*; and *c/o Naraguta Korot Areas, Ltd., P.O. Jos, Northern Nigeria.*
A	1902	Howe, John Allen, O.B.E., B.Sc., F.G.S. *Brissenden Farm, Frittenden, Staplehurst, Kent.*
A	1928	Howling, Gerald Edward, B.Sc. *Mineral Resources Dept., Imperial Institute, South Kensington, London, S.W.* 7.
L	1890	Hutchinson, Arthur, O.B.E., M.A., Ph.D., F.R.S. Emeritus Professor of Mineralogy in the University of Cambridge. Master of *Pembroke College, Cambridge.*

	Year of Election.	
A	1931	Ito, Tei-ichi. Assistant Professor of Mineralogy, *Mineralogical Institute, Imperial University, Tokyo, Japan.*
A	1923	Jardine, Irvine George, B.Sc., F.G.S. 27 *Cecil Road, Upton Manor, London, E.* 13.
A	1925	Johnston, Robert Angus Alister, F.R.C.S. *Box* 397, *Vancouver, British Columbia, Canada.*
L	1905	Jones, Bernard Mouat, D.S.O., M.A., F.C.S. Principal of *The College of Technology, Manchester.*
A	1930	Jones, William Richard, D.Sc., M.I.M.M., F.G.S. *Dept. of Geology, Imperial College of Science and Technology, South Kensington, London, S.W.* 7.
L	1908	Jones, Owen Thomas, M.A., D.Sc., F.R.S. Professor of Geology, *Sedgwick Museum, Cambridge.*
A	1929	Kennedy, William Quarrier, D.Sc., Ph.D. Geological Survey of Great Britain (Scottish Office). '*Southpark*', 19 *Grange Terrace, Edinburgh.*
A	1917	Kitson, Sir Albert Ernest, C.M.G., C.B.E., F.G.S. Formerly Director of the Geological Survey of the Gold Coast. '*Benalta*', *Ireby Crescent, Beaconsfield, Buckinghamshire.*
A	1930	Kôzu, Shukusuké, D.Sc. Professor of Mineralogy, *Mineralogical Institute, Tohoku Imperial University, Sendai, Japan.*
A	1926	Kreutz, Stefan, Ph.D. Professor of Mineralogy and Crystallography in the University of Kraków. *Collegium Minus, Gołębia* 11, *Kraków, Poland.*
L	1926	Krishnan, Maharajapuram Sitaram, M.A., Ph.D., A.R.C.S., D.I.C. Assistant Superintendent, *Geological Survey of India*, 27 *Chowringhee Road, Calcutta, India.*
A	1885	Kunz, George Frederick, M.A., Ph.D., Sc.D., F.G.S. 405 *Fifth Avenue, New York City, U.S.A.*
A	1922	Lake, Harry William, Colonel, C.M.G., M.I.M.M. 26 *Bolton Gardens, London, S.W.* 5; and 5 *Broad Street Avenue, Blomfield Street, London, E.C.* 2.
A	1924	Lane, Alfred Church, A.B., Ph.D., Sc.D. Professor of Geology, *Tufts College, Postal District No.* 57, *Boston, Massachusetts, U.S.A.*
A	1923	Larsen, Esper Signius, Ph.D. Professor of Petrology. *Harvard University, Cambridge, Massachusetts, U.S.A.*

Year of Election.

A 1923 Leech, John George Chambré, A.R.S.M., F.G.S. 7 *Belvedere Grove, Wimbledon, London, S.W.* 19.

A 1929 Lightfoot, Ben, M.C., M.A., F.G.S. Geological Survey of Southern Rhodesia, *P.O. Box* 366, *Salisbury, Southern Rhodesia.*

A 1879 Louis, Henry, M.A., D.Sc., A.R.S.M., F.G.S. Emeritus Professor of Mining in the Armstrong College. 4 *Osborn Terrace, Jesmond, Newcastle-on-Tyne.*

A 1914 Macgregor, Alexander Miers, B.A., F.G.S. Geological Survey of Southern Rhodesia. *P.O. Box* 366, *Salisbury, Southern Rhodesia.*

A 1929 MacGregor, Archibald Gordon, M.C., B.Sc. Geological Survey of Great Britain (Scottish Office), '*Southpark*', 19 *Grange Terrace, Edinburgh.*

A 1929 Macgregor, Murray, M.A., B.Sc., F.R.S.E. Geological Survey of Great Britain (Scottish Office), '*Southpark*', 19 *Grange Terrace, Edinburgh.*

A 1925 Maclaren, James Malcolm, D.Sc., F.G.S. '*Burncoose*', *Gwennap, Redruth, Cornwall*; and *Royal Empire Society, Northumberland Avenue, London, S.W.* 1.

A 1908 McLintock, William Francis Porter, D.Sc., F.G.S. Curator of the *Museum of Practical Geology*, 28 *Jermyn Street, London, S.W.* 1.

A 1921 McRobert, Rachel Workman, Lady, B.Sc., F.G.S. '*Douneside*', *Tarland, Aboyne, Aberdeenshire.*

A 1925 Marshall, Patrick, M.A., D.Sc., F.G.S. '*Hautere*', *Bellevue Road, Lower Hutt, Wellington, New Zealand.*

A 1927 Mathews, Charles William, F.G.S. 14 *Hatton Garden, London, E.C.* 1.

A 1930 Mauritz, Béla. Professor of Mineralogy and Petrology in the University of Budapest, *Muzeum-Körút* 4, *Budapest VIII, Hungary.*

A 1929 Mawson, Sir Douglas, Kt., O.B.E., D.Sc., B.E., F.R.S. Professor of Geology and Mineralogy, *University of Adelaide, South Australia.*

L 1919 Melmore, Sidney, B.Sc., F.G.S. '*Winkinghurst*', *Carr Lane, Acomb, York.*

	Year of Election.	
A	1923	Merwin, Herbert Eugene, Ph.D. *Geophysical Laboratory*, 2801 *Upton Street*, *Washington*, *D.C.*, *U.S.A.*
L	C	Miers, Sir Henry Alexander, Kt., M.A., D.Sc., LL.D., F.R.S. Honorary Professor of Crystallography in the University of Manchester. 18 *Aberdare Gardens*, *West Hampstead*, *London*, *N.W.* 6.
A	1923	Milner, Henry Brewer, M.A., F.G.S. 4 *Wycombe Gardens*, *Golders Green*, *London*, *N.W.* 11.
A	1912	Morgan, Arthur Henry, A.M.I.C.E., M.I.M.M. Superintendent of the *Ruby Mines*, *Mogok*, *Upper Burma*.
L	1922	Mountain, Edgar Donald, M.A. Professor of Geology, *Rhodes University College*, *Grahamstown*, *South Africa*.
A	1924	Murray-Hughes, Robert, F.G.S. *The Standard Bank of South Africa*, 10 *Clement's Lane*, *London*, *E.C.* 3.
A	1929	Nel, Louis Taylor, D.Sc. *Geological Survey of the Union of South Africa*, *P.O. Box* 401, *Pretoria*, *Transvaal*.
A	1927	Ogura, Tsutoma, Professor of Geology, *Ryojun College of Engineering*, *Port Arthur*, *Manchuria*.
L	1920	Ōhashi, Ryōichi. Professor of Geology and Mineralogy, *Akita Mining College*, *Akita*, *Japan*.
A	1926	Palache, Charles. Professor of Mineralogy, *Harvard University*, *Cambridge*, *Massachusetts*, *U.S.A.*
A	1922	Parker, Robert Luling, Ph.D. *Mineralogical Institute*, *Sonneggstrasse* 5, *Zürich* 6, *Switzerland*.
A	1915	Parsons, Arthur Leonard. Assistant-Professor of Mineralogy, *University of Toronto*, *Canada*.
A	1923	Phemister, James, M.A., B.Sc., F.G.S. Geological Survey of Great Britain (Scottish Office), '*Southpark*', 19 *Grange Terrace*, *Edinburgh*.
A	1926	Phemister, Thomas Crawford, Sc.M., Ph.D. *Dept. of Geology*, *University of British Columbia*, *Vancouver*, *British Columbia*, *Canada*.
A	1929	Phillips, Alexander Hamilton, D.Sc. Professor of Mineralogy in Princeton University, 54 *Hodge Road*, *Princeton*, *New Jersey*, *U.S.A.*

Year of Election.

A 1926 Phillips, Frank Coles, M.A., Ph.D., F.G.S. University Lecturer in Petrology, *Corpus Christi College, Cambridge.*

L 1899 Pollard, William, M.A., D.Sc., F.G.S. '*Whitmore*', *Chittlehamholt, Umberleigh, North Devon.*

A 1891 Pope, Sir William Jackson, K.B.E., M.A., M.Sc., D.Sc., LL.D., F.R.S. Professor of Chemistry in the University of Cambridge. '*Holmleigh*', *West Road, Cambridge.*

A 1910 Porter, Miss Mary Winearls, B.Sc. 118 *Southmoor Road, Oxford.*

A 1930 Powell, Herbert Marcus, B.A. *Dept. of Mineralogy, University Museum, Oxford.*

L 1887 Prior, George Thurland, M.A., D.Sc., F.R.S. Formerly Keeper of Minerals in the British Museum. '*Holywell*', *Uxbridge Road, Hatch End, Middlesex.*

A 1922 Puckle, Geoffrey Montagu. '*The Oaks*', *Cooper's Hill, Eversley, Hampshire.*

L 1908 Raisin, Miss Catherine Alice, D.Sc., F.L.S., F.G.S. 62 *Redcliffe Gardens, London, S.W.* 10.

A 1903 Rastall, Robert Heron, M.A., Sc.D., F.G.S., M.I.M.M. *Christ's College, Cambridge.*

A 1923 Read, Herbert Harold, D.Sc., A.R.C.S., F.G.S. Professor of Geology, *The University, Liverpool.*

A 1915 Richardson, William Alfred, D.Sc., B.A., B.Sc. (Engin.), F.G.S. Principal of the *Technical College, Green Lane, Derby.*

A 1929 Richey, James Ernest, M.C., B.A., F.R.S.E., F.G.S. Geological Survey of Great Britain (Scottish Office), '*Southpark*', 19 *Grange Terrace, Edinburgh.*

A 1919 Roberts, Malcolm, A.R.S.M., M.I.M.M. *c/o The Bolivian Legation,* 16 *Grosvenor Place, London, S.W.* 1.

A 1914 Rogers, Arthur William, M.A., Sc.D., F.R.S. Director of the Geological Survey of the Union of South Africa, *P.O. Box* 401, *Pretoria, Transvaal, South Africa.*

Year of Election.

A 1913 Rogers, Austin Flint, A.M., Ph.D. Professor of Mineralogy and Petrography, *Leland Stanford Junior University, Palo Alto, California, U.S.A.*

A 1902 Russell, Arthur Edward Ian Montagu, M.B.E. *Swallowfield Park, Reading, Berkshire.*

A 1929 Sampson, Edward, C.E., M.Sc., D.Sc. Associate Professor of Petrology, Princeton University, *Guyon Hall, Princeton, New Jersey, U.S.A.*

A 1918 Sandison, William Greswolde Williams. *Kilda, Baltasound, Unst, Shetland.*

A 1931 Schairer, John Frank, M.S., Ph.D. *Geophysical Laboratory,* 2801 *Upton Street, Washington, D.C., U.S.A.*

A 1912 Schaller, Waldemar Theodore, Ph.D. *United States Geological Survey, Washington, D.C., U.S.A.*

A 1919 Schoeller, Walter Raymond, Ph.D. 8 *Victoria Avenue, Bishopsgate, London, E.C.* 2.

A 1920 Schoep, Alfred, D.Sc. Professor of Crystallography and Mineralogy in the University of Ghent, 6 *Rue de la Roseraire, Ghent, Belgium.*

A 1928 Scholtz, Douglas Leinster, M.Sc. Lecturer in Geology, *Transvaal University College, Pretoria, Transvaal, South Africa.*

A 1914 Scott, Alexander, M.A., D.Sc. *'Conway House', Albert Terrace, Wolstanton, Stoke-on-Trent, Staffordshire.*

A 1932 Scrivenor, John Brooke, I.S.O., M.A., F.G.S., 68 *Chaucer Road, Bedford.*

A 1908 Shand, Samuel James, D.Sc., Ph.D., F.G.S. Professor of Geology, *University of Stellenbosch, South Africa.*

A 1919 Sheppard, George, D.Sc., F.G.S. 3 *Village Road, Garden Village, Hull, Yorkshire*; and *Casilla* 410, *Guayaquil, Ecuador.*

A 1912 Simpson, Edward Sydney, D.Sc., B.E., F.C.S. Government Mineralogist and Chemist, Western Australia. *'Carlingford', Mill Point, South Perth, Western Australia.*

L 1897 Smith, George Frederick Herbert, M.A., D.Sc., F.G.S., F.R.A.S. *British Museum of Natural History, South Kensington, London, S.W.* 7.

	Year of Election.	
A	1911	Smith, Herbert Gladstone, B.Sc., A.R.C.S., F.G.S. Reader in Geology in the University of London, *East London College, Mile End Road, London, E.* 1.
L	1910	Smith, Walter Campbell, M.C., T.D., M.A., F.G.S. *Mineral Dept., British Museum of Natural History, South Kensington, London, S.W.* 7.
A	1929	Solignac, Marcel Jean Louis, D. ès Sc. Chef du Service Géologique de Tunisie, 12 *Rue Émile Duclaux, Tunis.*
A	1925	Spencer, Edmondson, Ph.D., D.Sc., A.R.S.M., F.I.C., F.G.S. *c/o Messrs. Bird & Co. (Research Dept.), Post Box* 46, *Calcutta, India.*
A	1894	Spencer, Leonard James, M.A., Sc.D., F.R.S. Keeper of Minerals in the British Museum, *Mineral Dept., British Museum of Natural History, South Kensington, London, S.W.* 7.
A	1928	Spiller, Reginald Charles, M.A. Demonstrator in Mineralogy, *Dept. of Mineralogy, University Museum, Oxford.*
A	1923	Stillwell, Frank Leslie, D.Sc. 44 *Elphin Grove, Hawthorne, Victoria, Australia.*
A	1923	Stockley, Gordon Murray, A.R.C.S., A.I.C., F.C.S., F.G.S. *Geological Survey Dept., Dodoma, Tanganyika Territory, East Africa.*
A	1926	Stuart, Alan, M.Sc., F.G.S. '*Bungalow*', *Bayswater Road, Sketty, Swansea.*
A	1928	Sweet, Miss Jessie May, B.Sc. *Mineral Dept., British Museum of Natural History, South Kensington, London, S.W.* 7.
A	1925	Tarr, William Arthur, B.Sc., B.S., Ph.D. Professor of Geology and Mineralogy, *University of Missouri*; and 704 *Westwood Avenue, Columbia, Missouri, U.S.A.*
A	1922	Taylor, Joseph Cornelius. '*Rodmersham*', 7 *Albert Road, Hendon, London, N.W.* 4.
A	1903	Thomas, Herbert Henry, M.A., Sc.D., F.R.S. Petrographer to the Geological Survey of Great Britain. 28 *Jermyn Street, London, S.W.* 1.

Year of Election.

A 1931 Thomas, John Herbert, *Penarth, Truro, Cornwall.*

A 1925 Thomson, Ellis, B.A.Sc. Assistant-Professor, *Dept. of Mineralogy, University of Toronto, Canada.*

A 1921 Tilley, Cecil Edgar, B.Sc., Ph.D., A.I.C., F.G.S. Professor of Mineralogy and Petrology, *Dept. of Mineralogy and Petrology, Cambridge.*

A 1925 Tomkeieff, Sergei Ivanovich, F.G.S. *Geology Dept., Armstrong College, Newcastle-on-Tyne.*

L 1927 Trechmann, Charles Taylor, D.Sc., F.G.S., F.Z.S. *'Hudworth Tower', Castle Eden, Co. Durham.*

A 1923 Tsuboi, Seitarō. *Geological Institute, College of Science, Imperial University, Tokyo, Japan.*

L 1920 Tunbridge, Edward William, B.Sc., F.G.S. *'Westbury', Lillington, Leamington Spa, Warwickshire.*

L 1891 Tutton, Alfred Edwin Howard, M.A., D.Sc., F.R.S. 6 *St. Andrew's Hill, Cambridge.*

L 1930 Van Horn, Frank Robertson, Ph.D., Sc.D., M.S. Professor of Geology and Mineralogy, *Case School of Applied Science, Cleveland, Ohio, U.S.A.*

A 1925 Vendl, Aladár, Ph.D. Professor in the Technical High School, *Rezeda utca 7, Budapest I, Hungary.*

A 1925 Vendl, Miklós, Ph.D. Professor of Mineralogy and Geology, *Mining Academy, Sopron, Hungary.*

A 1930 Vickers, Arthur Eric Jarvis, M.Sc, F.I.C., F.G.S. 27 *Lily Road, Wolstanton, Stoke-on-Trent, Staffordshire.*

A 1930 Wager, Lawrence Richard, B.A., F.G.S. *Dept. of Geology, University of Reading, Reading, Berkshire.*

L 1930 Walker, Frederick, M.A., Ph.D., D.Sc., F.R.S.E. *Dept. of Geology, The University, St. Andrews, Fife.*

A 1913 Walker, Thomas Leonard, M.A., Ph.D., F.G.S. Director of the Royal Ontario Museum of Mineralogy, and Professor of Mineralogy and Petrography in the *University of Toronto, Canada.*

Year of Election.

A 1923 WASHINGTON, Henry Stephens, Ph.D. *Geophysical Laboratory*, 2801 *Upton Street, Washington, D.C., U.S.A.*

A 1923 WATSON, John Adam, A.C.G.I., F.I.C., F.C.S. 22 *Polwarth Gardens, Edinburgh.*

L 1894 WATTS, William Whitehead, M.A., M.Sc., Sc.D., LL.D., F.R.S. Emeritus Professor of Geology in the Imperial College of Science and Technology, London. '*Hillside*', *Langley Park Road, Sutton, Surrey.*

A 1929 WAYLAND, Edward James, A.R.C.S., M.I.M.M. Director of the *Geological Survey of Uganda, Entebbe, Uganda, East Africa.*

A 1929 WEBER, Leonhard, Ph.D. Professor of Mineralogy in the University, *Institut de Minéralogie, Université, Fribourg, Switzerland.*

A 1929 WELLS, Alfred Kingsley, D.Sc., F.G.S. Lecturer in Geology at King's College, London. '*Holmsdale*', *Buckhurst Hill, Essex.*

A 1929 WEST, William Dixon, M.A. *Geological Survey of India*, 27 *Chowringhee Road, Calcutta, India.*

L 1901 WESTON, Digby St. Aubyn Percy, Commander, Royal Navy (retired). 46 *Queen's Gate Gardens, London, S.W.* 7.

A 1924 WHITLOCK, Herbert Percy. *American Museum of Natural History, Central Park, New York City, U.S.A.*

A 1918 WILCOCKSON, William Howson, M.A., F.G.S. *Geological Dept., University of Sheffield.*

L 1925 WILLIAMS, Alpheus Fuller, B.Sc. General Manager, De Beers Consolidated Mines, Ltd. *Vergenoeg, Muizenberg, Cape Town, South Africa.*

A 1931 WILSON, Reginald Charles, B.Sc., F.G.S. Director of the Geological Survey of Nigeria. 8 *Duke's Avenue, Muswell Hill, London, N.* 10.

L C WOODWARD, Charles Josiah, B.Sc., F.G.S. '*The Lindens*', *St. Mary's Road, Harborne, Birmingham.*

Year of Election.

A 1927 Wooldridge, Sidney William, M.Sc., F.G.S. 7 *Shrewsbury Avenue, East Sheen, London, S.W.* 14.

A 1927 Wooster, William Alfred, M.A., Ph.D. Demonstrator in Mineralogy in the University of Cambridge. *Peterhouse, Cambridge.*

A 1919 Worth, Richard Hansford, M.Inst.C.E., F.G.S. 32 *Thornhill Road, Plymouth.*

L 1923 Wright, Frederic Eugene, Ph.D. *Geophysical Laboratory,* 2801 *Upton Street, Washington, D.C., U.S.A.*

PROCEEDINGS
OF THE
MINERALOGICAL SOCIETY

EXCERPT MINUTES OF COUNCIL MEETING.

Held in the Apartments of the Geological Society, Burlington House, London, W., January 13, 1931, *at* 4 *p.m.*

Sir JOHN S. FLETT, F.R.S., President, in the Chair.

Professor Gregori Aminoff, Dr. Arthur William Groves, Professor Arthur Pharaoh Honess, and Mr. Reginald Charles Wilson were provisionally elected Ordinary Members of the Society.

The resignation of Dr. W. E. Swinton was received and accepted. Prof. C. K. K. Pillai was removed from the List of Members in accordance with bye-law 7.

The deaths of Dr. J. W. Evans, Foreign Secretary, and of Dr. J. V. Elsden were announced.

The Treasurer presented the audited accounts and balance-sheet for the year ending December 31, 1930, which were approved.

An invitation was received from the British Association to send a delegate to be present at the centenary meeting, and Sir Henry A. Miers was nominated.

Prof. Arthur Hutchinson, Past-President, was co-opted as Foreign Secretary to fill the vacancy created by the death of Dr. J. W. Evans.

GENERAL MEETING.

Held in the Apartments of the Geological Society, Burlington House, London, W., January 13, 1931, *at* 5.30 *p.m.*

Sir JOHN S. FLETT, F.R.S., President, in the Chair.

Twenty Members were present.

The elections of Prof. G. Aminoff, Dr. A. W. Groves, Prof. A. P. Honess, and Mr. R. C. Wilson as Ordinary Members of the Society were confirmed.

The following papers were read :—

1. A soda-margarite from the Postmasburg district, South Africa : by Dr. F. C. Phillips (vol. 22, p. 482).

2. The distinction of analcime from leucite in rocks by X-ray methods: by Mr. F. A. Bannister (vol. 22, p. 469).

3. A chemical, optical, and X-ray study of nepheline and kaliophilite: by Mr. F. A. Bannister (vol. 22, p. 569).

4. An occurrence of grunerite at Pierrefitte, Hautes-Pyrénées, France: by Dr. H. V. Warren (vol. 21, p. 477).

Mr. F. N. Ashcroft exhibited a series of fine specimens of axinite from Piz Walatscha, Scopi massif, one of danburite from Val Cadlimo, and a large crystal of milarite from Calmot, Kreuzlithal, Tavetsch, Switzerland.

EXCERPT MINUTES OF COUNCIL MEETING.

Held in the Apartments of the Geological Society, Burlington House, London, W., March 17, 1931, *at* 4.30 *p.m.*

Sir John S. Flett, F.R.S., President, in the Chair.

Reports were received from the Treasurer and the Editor.

An invitation was received from the Royal Institution of Great Britain to appoint a delegate to the celebrations of the centenary of Michael Faraday's discovery of electro-magnetic induction, and it was decided that the President (Sir John Flett) should act as the Society's representative. Prof. A. Hutchinson was asked to act as the Society's delegate at the celebrations of the jubilee of the British Museum (Natural History).

GENERAL MEETING.

Held in the Apartments of the Geological Society, Burlington House, London, W., March 17, 1931, *at* 5.30 *p.m.*

Sir John S. Flett, F.R.S., President, in the Chair.

Twenty-seven Members and seven Visitors were present.

The following papers were read:—

1. On a new method of detecting pyro-electricity: by Mr. A. J. P. Martin (vol. 22, p. 519).

2. The Mbosi meteoric iron, Tanganyika Territory: by Dr. D. R. Grantham and Mr. F. Oates (vol. 22, p. 487).

3. The Dhoon (Isle of Man) granite: a study in contamination: by Mr. S. R. Nockolds (vol. 22, p. 494).

4. Clouded felspars as a result of thermal metamorphism: by Mr. A. G. MacGregor (vol. 22, p. 524).

5. The residual liquids of crystallizing magmas: by Mr. C. N. Fenner (communicated by the General Secretary; vol. 22, p. 539).

EXCERPT MINUTES OF COUNCIL MEETING.

Held in the Apartments of the Geological Society, Burlington House, London, W., June 9, 1931, at 4.15 p.m.

Sir John S. Flett, F.R.S., President, in the Chair.

Mr. Leason Heberling Adams and Dr. John Frank Schairer were provisionally elected Ordinary Members of the Society.

The deaths of Mr. J. Currie, Dr. A. R. Dwerryhouse, and Dr. T. V. Barker were announced.

The following changes in the list of Officers and Council were proposed. Prof. A. Hutchinson (co-opted January 13, 1931) to be Foreign Secretary. Ordinary Members of Council to be asked to stand for election: past members, Sir Harold B. Hartley, Dr. C. E. Tilley, or Mr. Arthur Russell; new members, Mr. F. A. Bannister, Prof. H. H. Read, or Dr. F. Walker, or Dr. A. K. Wells. The four senior Ordinary Members due to retire were: Colonel N. T. Belaiew, Mr. H. Collingridge, Mr. H. Dewey, and Prof. A. Holmes.

It was decided to hold the meetings in 1932 on the following dates: Tuesdays—January 19, March 15, June 7, and November 1.

The Treasurer proposed certain alterations in the bye-laws, and it was decided that he should circulate the proposals to the Council and that a special meeting of the Council should be held on September 22, 1931.

GENERAL MEETING.

Held in the Apartments of the Geological Society, Burlington House, London, W., June 9, 1931, at 5.30 p.m.

Sir John S. Flett, F.R.S., President, in the Chair.

Twenty-eight Members and five Visitors were present.

The elections of Mr. L. H. Adams and Dr. J. F. Schairer as Ordinary Members of the Society were confirmed.

The following papers were read:—

1. An occurrence of vanadiferous nodules on the coast of South Devon: by Mr. G. E. L. Carter (vol. 22, p. 609).

2. Studies on the zeolites. Part II. Thomsonite (including faroelite) and gonnardite: by Mr. M. H. Hey.

3. An account of British mineral collectors and dealers in the 17th, 18th, and 19th centuries (continued): by Mr. Arthur Russell.

4. Hoba (South-West Africa), the largest known meteorite: by Dr. L. J. Spencer (vol. 23, p. 1).

The following papers were taken as read:—

5. Twelfth list of new mineral names: by Dr. L. J. Spencer (vol. 22, p. 614).

6. On different habits of fluorite crystals: by Dr. J. Drugman.

Prof. H. L. Bowman exhibited exceptionally well-developed crystals of cassiterite from Portugal. Mr. F. N. Ashcroft exhibited a large specimen of very fine crystals of wolframite from Portugal.

SPECIAL COUNCIL MEETING.

Held in the Apartments of the Geological Society, Burlington House, London, W., September 22, 1931, *at* 4 *p.m.*

Sir John S. Flett, F.R.S., President, in the Chair.

The proposed changes in the bye-laws drafted by the Treasurer and circulated to the Members of the Council were discussed and some slight amendments made. It was decided to leave to the Treasurer the final drafting of the clause relating to composition fees, and to circulate the amended proposals to the Members of the Society a month before the Anniversary Meeting.

EXCERPT MINUTES OF COUNCIL MEETING.

Held in the Apartments of the Geological Society, Burlington House, London, W., November 3, 1931, *at* 4 *p.m.*

Sir John S. Flett, F.R.S., President, in the Chair.

Mr. Edward Percival Bottley, Dr. Alexander Murray Cockburn, Dr. Robert Hart, Professor Tei-ichi Ito, and Mr. John Herbert Thomas were provisionally elected Ordinary Members of the Society.

The resignation of Mr. A. Stanley Williams was received and accepted.

The deaths of Prof. F. J. Becke and Prof. F. W. Clarke, Honorary Members, were announced.

The proposed changes in the bye-laws which had been circulated to the Members of the Society were read through, and certain amendments to be moved at the Anniversary Meeting were noted.

Prof. C. G. Cullis and Dr. H. F. Harwood were appointed auditors of the accounts for the year ending December 31, 1931.

The Annual Report of the Council, submitted by the General Secretary, was read and approved.

GENERAL (ANNIVERSARY) MEETING.

Held in the Apartments of the Geological Society, Burlington House, London, W., November 3, 1931, *at* 5.30 *p.m.*

Sir John S. Flett, F.R.S., President, in the Chair.

Twenty-seven Members were present.

The President nominated Mr. R. Murray-Hughes and Mr. H. E. Buckley to act as scrutineers of the voting-papers for the election of Officers and Council. The scrutineers reported that sixty-four voting-papers had been returned to the Secretary, and that the list as nominated by the Council was approved, namely :—

President. Sir John S. Flett, K.B.E., M.A., LL.D., D.Sc., F.R.S.

Vice-Presidents. Dr. G. F. Herbert Smith, M.A., D.Sc., F.G.S., F.R.A.S.

Prof. C. Gilbert Cullis, D.Sc., F.G.S.

Treasurer. F. N. Ashcroft, M.A., F.G.S., F.C.S.

General Secretary. W. Campbell Smith, M.C., T.D., M.A., F.G.S.

Foreign Secretary. Prof. A. Hutchinson, O.B.E., M.A., Ph.D., F.R.S.

Editor of the Journal. Dr. L. J. Spencer, M.A., Sc.D., F.R.S.

Ordinary Members of Council.

Dr. A. Brammall, Ph.D., D.Sc., F.G.S.

G. M. Davies, M.Sc., F.G.S.

Prof. W. G. Fearnsides, M.A., F.G.S.

Miss W. M. Porter, B.Sc.

A. F. Hallimond, M.A., F.G.S.

Dr. F. H. Hatch, O.B.E., Ph.D., F.G.S.

Sir Albert E. Kitson, C.M.G., C.B.E., F.G.S.

Prof. W. L. Bragg, O.B.E., M.A., F.R.S.

F. A. Bannister, M.A.

Prof. H. H. Read, D.Sc., A.R.C.S., F.G.S.

Arthur Russell, M.B.E.

Prof. C. E. Tilley, Ph.D., B.Sc., A.I.C., F.G.S.

The elections of Mr. E. P. Bottley, Dr. A. M. Cockburn, Dr. R. Hart, Prof. T. Ito, and Mr. J. H. Thomas as Ordinary Members of the Society were confirmed.

Certain minor amendments to the draft of the proposed changes in the bye-laws which had been circulated were proposed and carried. The President then proposed that the changes in the bye-laws be adopted. This was carried unanimously.

A vote of thanks to the Geological Society for the use of their rooms was proposed and carried.

The General Secretary then read the following:—

Annual Report of Council.

During the session 1930–31 four ordinary meetings have been held, by kind permission, in the apartments of the Geological Society of London, Burlington House, London, W. Nineteen papers have been read during the year. Four numbers of the Journal of the Society (nos. 131–134) have been issued. They contain eighteen papers occupying 246 pages with six plates, and 550 abstracts occupying 192 pages.

The balance-sheet for the year ending December 31, 1930, showed an excess of assets (exclusive of the Library and stock of publications) over liabilities of £2143 4*s*. 8*d*. The value of the stock invested in the name of the Trustees of the Society was on December 31, 1930, £1817 19*s*. 6*d*.

The Council regrets to announce the death of the following Honorary Members, Prof. F. J. Becke and Prof. F. W. Clarke, and of the following Ordinary Members, Dr. T. V. Barker, Mr. J. Currie, Dr. A. R. Dwerryhouse, Dr. J. V. Elsden, and Dr. J. W. Evans. At the time of his death on November 16, 1930, Dr. Evans was Foreign Secretary of the Society, an office which he had held since 1924; he had previously served for six years as Treasurer, and nine years as an Ordinary Member of Council. Prof. A. Hutchinson was co-opted to fill the office of Foreign Secretary left vacant by Dr. Evans's death. During the year three Ordinary Members have resigned, and one has been removed from the list of members in accordance with bye-law 7. Nine new members have been elected, leaving the total membership on October 31, 1931, at 225, including nine Honorary Members.

The Society's Library has received during the year 161 parts of periodicals and 31 separate copies of papers. 37 volumes have been borrowed. The thanks of the Society are due to Mr. J. Broadhead and Prof. A. Hutchinson for volumes which they have presented to the Library.

The Council has had under consideration amendments to the Society's bye-laws, drawn up in the first place by the honorary Treasurer. These were discussed at a special meeting of the Council held on September 22, and printed copies were circulated to the Members a month before the Anniversary Meeting.

The President, Sir John S. Flett, represented the Society as a delegate at the celebrations of the centenary of Michael Faraday's discovery of electro-magnetic

induction and at the centenary celebrations of the British Association for the Advancement of Science; and the Foreign Secretary, Prof. A. Hutchinson, at the jubilee celebrations of the British Museum (Natural History).

On the motion of Dr. H. F. Harwood, seconded by Prof. P. G. H. Boswell, the report was adopted.

The following papers were then read :—

1. On crystals of brookite tabular parallel to the basal plane : by Dr. F. C. Phillips.

2. Scorodite from Kiura mine, Bungo, Kiushiu, Japan : by Prof. T. Ito and Mr. T. Shiga.

3. A new meteoric stone from Suwahib, Arabia : by Mr. W. Campbell Smith (vol. 23, p. 43).

4. A new siderolite from Bencubbin, Western Australia : by Dr. E. S. Simpson and Mr. D. G. Murray (vol. 23, p. 33).

5. The meteorite craters at Henbury, Central Australia : by Mr. A. R. Alderman (communicated by Dr. L. J. Spencer; vol. 23, p. 19).

The following paper was taken as read :—

6. Notes on brown hornblende and biotite from Shabō-zan, of the Daiton volcanoes, Taiwan, Japan : by Prof. Takeshi Ichimura (communicated by Prof. P. G. H. Boswell; vol. 22, p. 561).

Mr. Arthur Russell exhibited a fine nugget of gold from County Wicklow, which he had recently acquired.

MINERALOGICAL

ABSTRACT OF RECEIPTS AND PAYMENTS

Receipts.	£ s. d.	£ s. d.	GENERAL PUR-
By Balances brought forward from 1930—			
1. At Bankers:			
(*a*) Current Account	12 17 11		
(*b*) Deposit Account	165 0 0		
2. In Office	0 9 0		
		178 6 11	
Entrance Fees		12 12 0	
Annual Subscriptions—			
1. Current year	161 14 0		
2. Arrears	8 8 0		
3. Advance	7 7 0		
		177 9 0	
Composition Fees		31 10 0	
Sale of Publications—			
1. By Publishers, April 1, 1930–March 31, 1931. Subscription Payments £217 0*s.* 0*d.*, and other sales £102 18*s.* 0*d.*, less trade discount and commission £88 11*s.* 0*d.*, and distribution charges £12 0*s.* 7*d.*	219 6 5		
2. By Custodian of Stock, 1931. £42 17*s.* 0*d.*, less trade discount £0 1*s.* 4*d.* and distribution charges £1 9*s.* 4*d.*	41 6 4		
		260 12 9	
Advertisement Fees, £45 3*s.* 0*d.*, less commission £8 19*s.* 11*d.*		36 3 1	
Interest on Investments as received—			
1. £1615 5% War Loan 1929–47 Inscribed Stock	79 0 0		
2. £105 4% Consolidated Loan 1957 Inscribed Stock	4 4 0		
3. £100 4% Funding Loan 1960–90 Inscribed Stock	4 0 0		
		87 4 0	
Deposit Interest		7 3 3	
Small Receipts		0 0 4	
		£791 1 4	

SOCIETY

FOR THE YEAR ENDING DECEMBER 31, 1931

POSES ACCOUNT.

Payments.	£ s. d.	£ s. d.
To Printing and distributing the Mineralogical Magazine Nos. 132–135 inclusive (Oxford University Press)—		
1. Printing	342 16 6	
2. Illustrations	27 4 0	
3. Authors' Separate Copies	24 4 0	
4. Distribution Charges	14 8 0	
5. Postal wrappers (renewal of stock)	2 13 6	
		411 6 0
Printing and distributing notices of Meetings and other annual miscellaneous printing		19 6 1
Miscellaneous Printing, &c. (not annual)—		
1. Memorandum *re* Bye-laws (typing)	0 15 6	
2. Amendments to Bye-laws, draft proposals (printing)	3 1 0	
		3 16 6
Expenses at Meetings (1931)—		
1. Operator of lantern	2 2 0	
2. Porter	1 0 0	
3. Tea	3 3 6	
4. Liquid air for demonstration	0 9 6	
		6 15 0
Care of Stock of Publications— Annual fee, 1931, J. Mugford		1 1 0
Purchase of Deed Box for Archives		5 11 6
Editor's Honorarium, 1931		50 0 0
Postage—		
1. Hon. Secretary	1 4 2	
2. Editor	1 0 4	
3. Hon. Treasurer (not charged)	—	
		2 4 6
Bank charges and other small items		0 12 3
Investments, purchase of £35 5 % War Loan 1929–47 Inscribed Stock, commission and stamp		34 13 0
Transferred to Library Fund Account		5 0 0
Balance, December 31, 1931—		
1. At Bankers:		
(*a*) Current Account	25 8 4	
(*b*) Deposit Account	225 0 0	
2. In Office	0 7 2	
		250 15 6
		£791 1 4

Examined and compared with vouchers and found correct.

C. GILBERT CULLIS
HENRY F. HARWOOD } Auditors.

January 18, 1932.

F. N. ASHCROFT, Hon. Treasurer.

LIBRARY FUND

Receipts.	£	s.	d.	£	s.	d.
By Balances brought forward from 1930—						
1. At Bankers	1	1	9			
2. In Office	0	0	9			
				1	2	6
Transferred from General Purposes Account				5	0	0
				£6	2	6

BALANCE

DECEMBER

Liabilities.	£	s.	d.
By Cash in hand as per Temporary Suspense Account (not published)	1	7	8
Sundry Creditors	0	17	6
Annual Subscriptions in advance—			
Received in 1931 for 1932	7	7	0
Excess of Assets over Liabilities	1133	17	8
	£1143	9	10

ACCOUNT.

Payments.	£	s.	d.	£	s.	d.
To Librarian's Honorarium, 1931				5	0	0
Balance, December 31, 1931—						
1. At Bankers (current account)	1	1	9			
2. In Office	0	0	9			
				1	2	6
				£6	2	6

Examined and compared with vouchers and found correct.

C. GILBERT CULLIS
HENRY F. HARWOOD } Auditors.

January 18, 1932. F. N. ASHCROFT, Hon. Treasurer.

SHEET

31, 1931.

Assets.	£	s.	d.	£	s.	d.
To Balances—						
I. General Purposes Account:						
1. At Bankers:						
(*a*) Current Account	25	8	4			
(*b*) Deposit Account	225	0	0			
2. In Office	0	7	2			
				250	15	6
II. Library Fund Account—						
1. At Bankers: Current Account	1	1	9			
2. In Office	0	0	9			
				1	2	6
III. Temporary Suspense Account—						
At Bankers: Current Account				1	7	8
Sale of Publications—						
By Publishers, April 1 to Dec. 31, 1931				79	10	10
Advertisement Fees				21	17	3
Investments at Broker's Valuation—						
1. £640 5% War Loan 1929–47 Inscribed Stock at 95¾	612	16	0[1]			
2. £105 4% Consolidated Loan 1957 Inscribed Stock at 81⅝	85	14	1			
3. £100 4% Funding Loan 1960–90 Inscribed Stock at 84	84	0	0			
				782	10	1
Arrears of Annual Subscriptions, valued at				6	6	0
				£1143	9	10

Note.—The value of the Library, that of the unsold Stock of Publications, and that of the Securities allocated to the Composition Fees Account are not included in the above assets.

January 18, 1932. F. N. ASHCROFT, Hon. Treasurer.

[1] Being £1615 5% War Loan less £975 5% War Loan allocated to the Composition Fees Account (new).

COMPOSITION FEES ACCOUNT.[1]

	£	s.	d.		£	s.	d.
By 92 Composition Fees received, 1876–December 31, 1931 (61 at £10 10*s.* and 31 at £15 15*s.*)	1128	15	0	To £975 5% War Loan 1929–47 Inscribed Stock allocated to the account. (Actual cost £1129 14*s.* 7*d.* Value December 31, 1931, at Broker's valuation, 95¾, £933 11*s.* 3*d.*)	1128	15	0
	£1128	15	0		£1128	15	0

January 18, 1932. F. N. ASHCROFT, Hon. Treasurer.

Having examined the method by which the above statement has been reached we are of opinion that the amounts here allocated to the Composition Fees Account are substantially correct. We have, however, not been able to verify details.

C. GILBERT CULLIS
HENRY F. HARWOOD } Auditors.

[1] This account was created on December 31, 1931. The Council has been advised that as the Society adopted at its foundation the Bye-law 'Composition Fees shall be treated as Capital . . .', and as the phrase mentioned has been retained in the Bye-laws ever since, the moneys received as Composition Fees should be treated as Trust Moneys, and that they should be separated in the Accounts from the other Capital Moneys of the Society. The total sum received as Composition Fees up to December 31, 1931, amounts to £1128 15*s.* 0*d.*, and the investments made up to that date have cost (including all charges such as Stamps and Fees and expenses incidental to the conversions of Stocks formerly held, but not costs incidental to changes of Trustees) £2049 7*s.* 8*d.* Thus 55·08% of the sum invested and of the investments purchased represents Composition Fees received up to December 31, 1931. To avoid fractions in the nominal amount of the Stock allocated to the account, it has been credited with £975 5% War Loan 1929–47, Inscribed Stock, the cost of which works out at £1129 14*s.* 7*d.* against the £1128 15*s.* 0*d.* required.